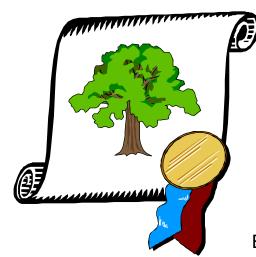


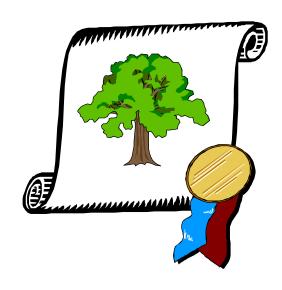
Green Tags & Emission Credits: A Happy Marriage?



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Green Tags & Emission Credits: Summary

- Relationship of green tags to emissions trading
- Future of cap & trade mechanisms
- Technical & policy issues for green tags
- Role of EPA in promoting green power markets





Green Tags: An Exciting Concept

- Consumer's "right to know"
- Consistent with competitive electricity markets
- Potential driver for investment in renewables
- Public education tool
 - » draw attention to electricity's environmental impacts
 - » certificate represents value of clean power
 - » provide customer choice



If we can trade emissions, why not "green" stuff, too?



Renewables & Emissions Trading

Credits for renewables are very rare!

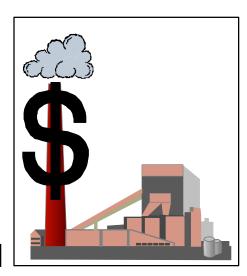
- Traditional air regulation
 - » state implementation plans (SIPs)
 - » emission rate standards (lb/mmBtu)
- Acid Rain Program (cap & trade)
 - » firm emissions cap (tons)
 - » allocation by fossil heat input, fuel type
- Offsets & set-asides
 - » isolated/small size
 - » high transaction costs





Innovative Regulatory Mechanisms

- Begin with cap & trade model
- Output-based standard (lb/MWh)
 - » fuel neutral
 - » rewards generation efficiency
 - » encourages CHP
- Broadened allocation
 - » include renewable output in allocation
 - » automatic credit; no application needed





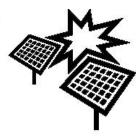
Forthcoming EPA NO_X Output Rule

- Federal NO_X output standard (lb/MWh) for eastern states*
 - » states could adopt same allocation for SIPs
 - » proposed rule expected winter/spring 2001
- EPA will accept comment on whether to include output from non-fossil generators:
 - » nuclear power
 - » hydropower
 - » renewables









^{*}applies to Federal Implementation Plans and Sec. 126 compliance.



Potential Future Cap & Trade Programs

- Mercury from power plants
 - » EPA announcement expected 12/15/00
- Carbon?
- 4-pollutant strategy
 - » bills by Jeffords, Leahy, Pallone, Kucinich, Waxman, Allen, Lazio



- » concept endorsed by Pres. Clinton, VP Gore, GW Bush
- Acid Rain-type cap & trade likely model
- Allocation for renewables?

Green Tags & Emission Credits: Apples & Oranges

- Different concepts; separate commodities
 - » emission credits are legal instruments
 - » green tags are a creation of the marketplace
- Cap & trade programs have prescribed boundaries
- Bundling possible, but can't be mandated





Green Tags: Policy Issues

- Coordination with state RPS
 - » common data systems; avoid double-counting
 - » apply to every unit sold
- Coordination with state disclosure rules
 - » mandatory disclosure, incl emissions ("brown" tags too!)
 - » coordination between states
- Credibility with consumers
 - » public acceptance of tagging concept (tough sell?)
 - » observe laws of physics





Role of EPA

- EPA data systems will support green tags
 - » E-GRID database
 - emissions & resource mix for entire power sector
 - supports state policies (disclosure, RPS)
 - » Allowance Tracking System
 - records allowance transfers for SO₂, NO_X
- Analytical tools (forthcoming)
 - » document pollution prevention thru displaced emissions
 - emissions profile tool
 - emissions impact analysis
- Rulemakings & policy guidance





Role of EPA (cont'd): Support for Green Power Mkts

- Certification & accreditation
 - » e.g., Green-e
- Information
 - » encourage business & federal purchases
- Develop green power network
 - » partnerships with enviros, utilities, marketers
- Provide environmental recognition for green power purchases
 - » build credibility for green power products



A Happy Marriage?

